

Compass Rose

by Arya Akhavan (November 2012)

Angles for R.I. = 1.620

69 + 16 girdles = 85 facets

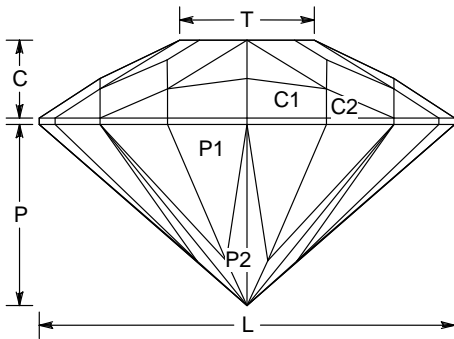
8-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.324 U/W = 0.324

P/W = 0.436 C/W = 0.187

Vol./W³ = 0.198



PAVILION

P1	42.13°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	Cut to centerpoint.
G1	90.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	Set stone size.
P2	41.13°	01-11-13-23-25-35-37-47-49-59-61-71-73-83-85-95	Meet P1, G1

CROWN

C1	33.51°	03-21-27-45-51-69-75-93	Set girdle width.
C2	38.00°	09-15-33-39-57-63-81-87	Level girdle.
C3	31.54°	12-36-60-84	Meet G1, C2
C4	26.53°	04-20-28-44-52-68-76-92	Meet C1, C2, C3
C5	25.08°	06-18-30-42-54-66-78-90	Meet C1, C2, C3, C4
T	0.00°	Table	Meet C4, C5

This design came about from a few hours when I was just messing around with checkerboards. There's a very pronounced compass rose in the reflection pattern, which gets exaggerated in low RIs. I like this in reddish tourmaline, but works in materials from feldspar to YAG (RI = 1.52 - 1.83) with no changes.

Suggested size = 5-10 mm

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